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NOTICE OF ALLOWANCE AND FEE(S) DUE

26021 7590 09/23/2008 HOGAN & HARTSON L.L.P. 1999 AVENUE OF THE STARS

SUITE 1400

LOS ANGELES, CA 90067

EXAMINER

VAN, LUAN V

ART UNIT PAPER NUMBER

1795 DATE MAILED: 09/23/2008

 APPELICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFERMATION NO.

 10/774,326
 02/05/2004
 Takuji Nomura
 \$1846,0025
 \$530

TITLE OF INVENTION: SOLAR CELL MODULE, METHOD OF LAYING SOLAR CELL MODULES, AND APPARATUS FOR PREVENTING SOLAR CELL MODULES FROM BEING BLOWN OFF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/23/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	of transmitting the 1336 ig the Patent, advance of herwise in Block 1, by (a	rders and notification of a a) specifying a new corre	maintenance fees w spondence address;	ill be and/o	mailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
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1999 AVENUE SUITE 1400	7590 09/23 ARTSON L.L.P. OF THE STARS	/2008	T be	Cert	ificate	of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
LOS ANGELES	, CA 90067						(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	:	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/774,326 TITLE OF INVENTION SOLAR CELL MODUL			Takuji Nomura AYING SOLAR CELL	MODULES, AND	APP/	81846.0035 ARATUS FOR PREV	8530 /ENTING
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	12/23/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	1			
VAN, L	UAN V	1795	I36-244000	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.II. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON "	2. For printing on the p (1) the names of up to co agents OR, alternati (2) the names of a sing registered attorney or 2 registered patent attorney or 1 the post of the post	o 3 registered patent vely, le firm (having as a agent) and the name rneys or agents. If r printed. pe)	memb s of u no nan	er a 2p to p to se is 3	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🗖 Co	rporati	on or other private gro	oup entity Government
Advance Order -	wo small entity discount p	permitted)	o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	rd. Form PTO-2038	is atta	ched.	shown above) ficiency, or credit any n extra copy of this form).
- 11	s SMALL ENTITY state	is. See 37 CFR I.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	the applicant; a regis	stered	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/774,326	02/06/2004	Takuji Nomura	81846.0035	8530		
26021	7590 09/23/2008		EXAMINER			
HOGAN & HA	RTSON L.L.P.	VAN, LUAN V				
1999 AVENUE	OF THE STARS	ART UNIT	PAPER NUMBER			
SUITE 1400 LOS ANGELES, CA 90067			1795 DATE MAIL ED: 09/23/200	8		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/774 326 NOMURA ET AL. Notice of Allowability Examiner Art Unit I HAN V VAN 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Amendment filed on August 1, 2008. 2. The allowed claim(s) is/are 7, 14-17. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some* c} \) \(\subseteq \text{None of the:} \) a) \square All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. ☐ Examiner's Amendment/Comment Paper No./Mail Date 8/22/08 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit

of Biological Material

Other .

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DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: claim 7 is directed to a method of laying solar cell modules that includes placement of a specific separate waterproof member between the solar cell module and the roofing tiles. The closest prior art is JP 11-200561, herein referred to as JP '561.

JP '561 teaches the laying of solar cell modules together with tiles (B) on the roof of a building (see Figure 11). As seen in Figure 1,4, and 11, there is a separate waterproof member (7) placed between each solar cell module and one tile (B) which are laid adjacent in the direction of a gradient of the roof. As seen schematically in Figure 11, said waterproof member (7) has substantially the same height as the height of the tiles (B). As seen in JP '561's Figures 1,4, and 11, the waterproof member (7) has a width narrower the tiles (B). The waterproof member (7) is a "rectangular box that opens at a lower portion thereof" to the extent that (7b) is one wall. (7D) is another wall. and (7E) is another wall, and (C) is in the opening of the box. The word "lower" is relative, and thus, when JP '561's Figures 4 and 11 are viewed upside down, the opening of waterproof member (7) is at a lower portion thereof. As seen in Figure 11, the waterproof member (7) has a trough section. This trough section renders waterproof a junction between the tile (B) to the right of the trough section and the solar module (A) adjacent thereto because waterproof member (7) is waterproof. As seen in Figure 11, the waterproof member (7) overlaps one side of a solar cell module and tile. Claim 7 as amended now further requires the rectangular box opens at a lower portion with respect

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to the roof. Thus the word lower is no longer relative and requires the box to open facing the roof. Figure 11 of JP '561 shows the waterproof member to be open toward the sky or away from the roof. This configuration is not a rectangular box that opens at a lower portion thereof with respect to the roof. Further, altering the method of JP '561 by turning the waterproof member over so that it would open to the roof would destroy the invention of JP '561 and also not allow the member to fulfill its purpose as a waterproof member. Therefore the claim is allowable over the prior art.

The following is a statement of reasons for the indication of allowable subject matter: claims 14 through 16 require a method of laying solar cell modules together with tiles on a roof panel incorporating the use of specific fastening strips that engage the solar cell module and roof tiles in a specific manner. The closest prior art is JP 2000-226908, herein referred to as JP '908.

JP '908 teaches solar cell module tiles (1) that have already been laid on a roof (see Figure 6). Then, additional solar cell module tiles (1) are laid on the roof such that the eaves side of a solar cell module tile (1) to be laid is fastened to an upper portion of the ridge side of solar cell module tiles (1) that have already been laid (see Figures 6 and 8). As seen in Figure 1, the solar cell module (4) of a given solar cell module tile (1) is fastened to the eaves side of the solar cell module tiles (1) with fastening strips (8) (see also Figures 4 and 8). Alternatively, fastening strip (38) can be used, as seen in Figures 12 and 13. As seen in Figure 12, fastening strips (38) comprise a rectangular main part and the instant at least two rising parts that extend from the main part. The fastening strips (8) can also have a rectangular part and multiple rising parts as seen in

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the embodiment of Figure 17(a). Fastening strips (8, 38) prevent solar cell modules (4) from being blow off (see paragraph 0045).

However as figure 8 shows, the eaves-side of the modules simply rest on the ridge side of the adjacent tile. There is no engagement of the fastening strips to the adjacent tile, and no engagement of the fastening strips to the roof and the upper portion of the ridge-side of the tiles. Last the figure shows the fastening strips are attached to an upper portion of the eaves-side of the module and not between a lower portion of the eaves-side and the upper portion of the ridge-side of the adjacent tile. Therefore the method of JP '908 does not meet all the requirements of the claims.

Claim 17 is directed to an apparatus to prevent a solar cell. module from being blown off by use of specific fastening strips. The claim requires the fastening strips to have a securing part directly secured to the roof through the ridge side end of one tile, and an engaging part coupled to an eaves-side edge of the solar module. The closest prior art is JP 2000-226908, herein referred to as JP '908. JP '908 teaches solar cell module tiles (1) that have already been laid on a roof (see Figure 6). Then, additional solar cell module tiles (1) are laid on the roof such that the eaves side of a solar cell module tile (1) to be laid is fastened to an upper portion of the ridge side of solar cell module tiles (1) that have already been laid (see Figures 6 and 8). As seen in Figure 1, the solar cell module (4) of a given solar cell module tile (1) is fastened to the eaves side of the solar cell module tiles (1) with fastening strips (8) (see also Figures 4 and 8). Alternatively, fastening strip (38) can be used, as seen in Figures 12 and 13. As seen in Figure 12, fastening strips (38) comprise a rectangular main part and the instant at least

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two rising parts that extend from the main part. The fastening strips (8) can also have a rectangular part and multiple rising parts as seen in the embodiment of Figure 17(a). Fastening strips (8, 38) prevent solar cell modules (4) from being blow off (see paragraph 0045).

However as figure 8 shows, the eaves-side of the modules simply rest on the ridge side of the adjacent tile. There is no engagement of the fastening strips to the adjacent tile, and no engagement of the fastening strips to the roof and the upper portion of the ridge-side of the tiles. The fastening strips do not have a securing part directly secured to the roof through a ridge side end of one tile. Instead the strips are secured to the base, 5, which are secured to the roof via nails, 12b, at the ridge side of the module. As there is no direct securing, the fastening strips of JP '908 do not meet all the requirements of the claim. Therefore the claim is allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan V. Van whose telephone number is 571-272-8521. The examiner can normally be reached on M-F 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Nam X Nguyen/ Supervisory Patent Examiner, Art Unit 1753

LVV September 16, 2008